

2016 Toxic Substance Accounting Report

Reporting under Toxics Reduction Act, 2009 and O. Reg. 455/09



Canada Malting

A GrainCorp business

579 Maureen Street, Thunder Bay, ON

Malt Processing Facility

General Company Information

Basic Facility Information	
The legal and trade names of the owner and operator of the facility, the street and mailing address of the facility	Canada Malting Co Ltd. 579 Maureen Street Thunder Bay, ON P7B 6T9
Facility NPRI identification number	7432
The identification number assigned to the facility by the Ministry of the Environment for the purposes of Ontario Regulation 127/01	Not applicable
Number of full-time employees	48
UTM Coordinates	x 0335197
	y 5364885
UTM Zone	16
Datum	1983
Legal name of Canadian parent company, the street and mailing address of the company	Canada Malting Co Ltd. 3316 Bonnybrook Street Southeast, Calgary, Alberta T2G 4M9
Percent Ownership	100%
Business Number for Parent Company	896611431
North American Industry Classification System (NAICS) - 2, 4, and 6 digit codes	31-33 311214
Facility Public/Technical Contact/Highest Ranking Employee	Andrew Parkes Malting Manager (807) 346 7502

2016 Toxic Substance Accounting Report
Canada Malting Company Ltd. – Thunder Bay Facility

Under Section 9 of the Toxics Reduction Act, an owner and operator of a facility are required to ensure for each process at the facility that uses or creates a prescribed toxic substance, that the substance is tracked and quantified, in accordance with the regulations. Under Section 10 (4) of the Act, the owner and the operator of a facility who are required under this section to ensure that a report is prepared shall ensure that all or part of the report, or some or all of the information contained in the report, is made available to the public on the Internet and by other means in accordance with the regulations.

The information contained within this report is the result of the accounting activities outlined in both the Act and Regulation. This report satisfies the requirements for reporting to the public as outlined in both the Act and Regulation.

**2016 Toxic Substance Accounting Report
Canada Malting Company Ltd. – Thunder Bay Facility**

Substance:	Sulphur Dioxide (SO ₂)
CAS Number:	7446-09-5

	2016 t	Change from 2015 t	Change from 2015 %
On a facility-wide basis:			
Amount that entered the facility as the substance itself or as a constituent of another substance:	0	0	0.0
The amount of substance that was created:	18.2	-2.2	-11.0%
The amount of substance that was contained in product:	4.5	-0.6	-11.8%
Released to air:	*	*	*
Released to land:	*	*	*
Released to water:	*	*	*
Transferred off-site for recycling	*	*	*
Disposed on-site:	*	*	*
Disposed off-site:	*	*	*

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2014 reporting period.

Toxic Substance Reduction Plan Objective

CMCL – Thunder Bay Malting Facility does not intend to reduce the creation of SO₂ at its facility because it is an essential substance that serves as a fungicide, bactericide and preservative in its malting process. Based on the information gathered in this report, the amount of SO₂ created is not expected to significantly increase. CMCL is committed to minimizing its environmental impact and stewarding the resources for future generations.

Implemented Options

No option was identified to be technically and economically feasible. Therefore, no option will be implemented for the reduction of the use and creation of sulphur dioxide.

**2016 Toxic Substance Accounting Report
Canada Malting Company Ltd. – Thunder Bay Facility**

Substance:
CAS Number:

Total Particulate Matter (TPM)
NA - M08

	2016 t	Change from 2015 t	Change from 2015 %
On a facility-wide basis: Amount that entered the facility as the substance itself or as a constituent of another substance:	0.0	0.0	0.0
The amount of substance that was created:	346.6	39.1	12.7%
The amount of substance that was contained in product:	0.0	0.0	0.0
Released to air	*	*	*
Released to land:	*	*	*
Released to water:	*	*	*
Transferred off-site for recycling	*	*	*
Disposed on-site:	*	*	*
Disposed off-site:	*	*	*

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2014 reporting period.

Toxic Substance Reduction Plan Objective

CMCL's Malt Processing Facility in Thunder Bay does not intend to reduce its creation of total particulate matter (TPM) because it is an unintentional by-product from material handling, kiln drying, combustion of natural gas and diesel and operation of cooling towers. Based on the information gathered in this report, the amount of TPM created is not expected to significantly increase. CMCL is committed to minimizing its environmental impact and stewarding the resources for future generations.

Implemented Options

No option was identified to be technically and economically feasible. Therefore, no option will be implemented for the reduction of the creation of TPM.

**2016 Toxic Substance Accounting Report
Canada Malting Company Ltd. – Thunder Bay Facility**

Substance:
CAS Number:

PM10
NA - M09

	2016 t	Change from 2015 t	Change from 2015 %
On a facility-wide basis: Amount that entered the facility as the substance itself or as a constituent of another substance:	0.0	0.0	0.0
The amount of substance that was created:	345.0	39.0	12.8%
The amount of substance that was contained in product:	0.0	0.0	0.0
Released to air	*	*	*
Released to land:	*	*	*
Released to water:	*	*	*
Transferred off-site for recycling	*	*	*
Disposed on-site:	*	*	*
Disposed off-site:	*	*	*

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2014 reporting period.

Toxic Substance Reduction Plan Objective

CMCL's Malt Processing Facility in Thunder Bay does not intend to reduce its creation of particulate matter less than 10 microns (PM10) because it is an unintentional by-product from material handling, kiln drying, combustion of natural gas and diesel and operation of cooling towers. Based on the information gathered in this report, the amount of PM10 created is not expected to significantly increase. CMCL is committed to minimizing its environmental impact and stewarding the resources for future generations.

Implemented Options

No option was identified to be technically and economically feasible. Therefore, no option will be implemented for the reduction of the creation of PM10.

**2016 Toxic Substance Accounting Report
Canada Malting Company Ltd. – Thunder Bay Facility**

Substance:
CAS Number:

PM2.5
NA - M10

On a facility-wide basis:

Amount that entered the facility as the substance itself or as a constituent of another substance:

The amount of substance that was created:

The amount of substance that was contained in product:

Released to air

Released to land:

Released to water:

Transferred off-site for recycling

Disposed on-site:

Disposed off-site:

	2016 t	Change from 2015 t	Change from 2015 %
Amount that entered the facility as the substance itself or as a constituent of another substance:	0.0	0.0	0.0
The amount of substance that was created:	337.4	38.2	12.8%
The amount of substance that was contained in product:	0-1	0.00	0.0
Released to air	*	*	*
Released to land:	*	*	*
Released to water:	*	*	*
Transferred off-site for recycling	*	*	*
Disposed on-site:	*	*	*
Disposed off-site:	*	*	*

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2014 reporting period.

Toxic Substance Reduction Plan Objective

CMCL's Malt Processing Facility in Thunder Bay does not intend to reduce its creation of PM2.5 because it is an unintentional by-product from material handling, kiln drying, combustion of natural gas and diesel and operation of cooling towers. Based on the information gathered in this report, the amount of PM2.5 created is not expected to significantly increase. CMCL is committed to minimizing its environmental impact and stewarding the resources for future generations.

Implemented Options

No option was identified to be technically and economically feasible. Therefore, no option will be implemented for the reduction of the creation of PM2.5.

As of June 1, 2017, I, Andrew Parkes, certify that I have read the reports on the toxic substance reduction plan(s) for the toxic substances referred to below and am familiar with their contents, and to my knowledge the information contained in the reports is factually accurate and the reports comply with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

Sulphur Dioxide
Total Particulate Matter
Particulate Matter less than 10 Microns
Particulate Matter less than 2.5 Microns



Andrew Parkes
Malting Manager